

IN THE CLAIMS:

C1  
8. (Amended) The eukaryotic cell of claim 7 wherein said reporter system is placed under control of a 6-16 reporter.

C2  
Rev D27  
11. (Twice Amended) A method of screening a compound that interferes with the binding of a ligand with the extracellular part of a chimeric receptor and/or with the signaling pathway of the cytoplasmic part of a chimeric receptor, the method comprising:

providing the eukaryotic cell of claim 1;  
contacting said eukaryotic cell with said compound; and  
selecting cells in which the cell's reporter system is inactivated.

15. (Amended) A method of screening for orphan receptors and unknown ligands comprising:

providing a eukaryotic cell comprising:

C3  
Rev D37  
a first recombinant gene encoding a chimeric receptor;  
a second recombinant gene encoding a compound, the expression of which creates an autocrine loop;  
a reporter system that is activated upon the creation of said autocrine loop;  
and

selecting cells in which the cell's reporter system is activated.